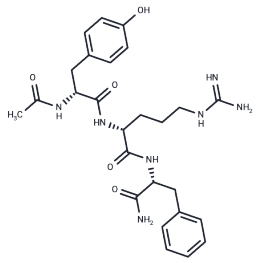
Data Sheet (Cat.No.T22319)

TargetMol
YOUR TARGET MOLECULES

DTP3

Chemical Properties



CAS No. : 1809784-29-9

Formula: C26H35N7O5

Molecular Weight: 525.6

Appearance: no data available

Storage: keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	DTP3 is a selective MKK7/GADD45β inhibitor, which inhibits cancer-selective NF-κB survival pathway.
Targets(IC50)	Others,DNA/RNA Synthesis,JAK
In vitro	DTP3 physically interacts with MKK7 in isolation and within the complex with GADD45β, and dissociates the GADD45β/MKK7 complex via an allosteric mechanism. DTP3 selectively kills cells and induces apoptosis in MM cells with functional MKK7 and elevated GADD45β expression without toxicity to normal cells. In addition, DTP3 displays synergistic activity with bortezomib in two different MM cell lines, exhibiting a combination index of 0.56 in KMS-12 cells and of 0.21 in U266 cells. [1]
In vivo	DTP3 treatment with 14.5 mg/kg/day exhibits potent antitumor activity against MM in mouse plasmacytoma model. [1]

Solubility Information

Solubility	Ethanol: 100 mg/ml (190.26 mM), H2O: 100 mg/ml (190.26 mM), DMSO: 100 mg/ml (190.26 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9026 mL	9.5129 mL	19.0259 mL
5 mM	0.3805 mL	1.9026 mL	3.8052 mL
10 mM	0.1903 mL	0.9513 mL	1.9026 mL
50 mM	0.0381 mL	0.1903 mL	0.3805 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Tornatore L, et al. Cancer Cell. 2014, 26(4), 495-508.

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